

GFM-HES Series

GFM-300HES 2V300Ah

GFM-HES series VRLA battery is a robust AGM battery designed for telecom, energy storage and UPS applications. Its dedicated deep cycle formulation and high temperature and high humidity curing process make it with good deep cycle performance, its excellent performance make it an impressive product in China and overseas market.



Benefits

- Very long life according to EUROBAT Classification
- High discharge performance
- 99%+ gas recombination efficiency
- Maximum charge efficiency
- Low self-discharge rate
- Easy installation and handling

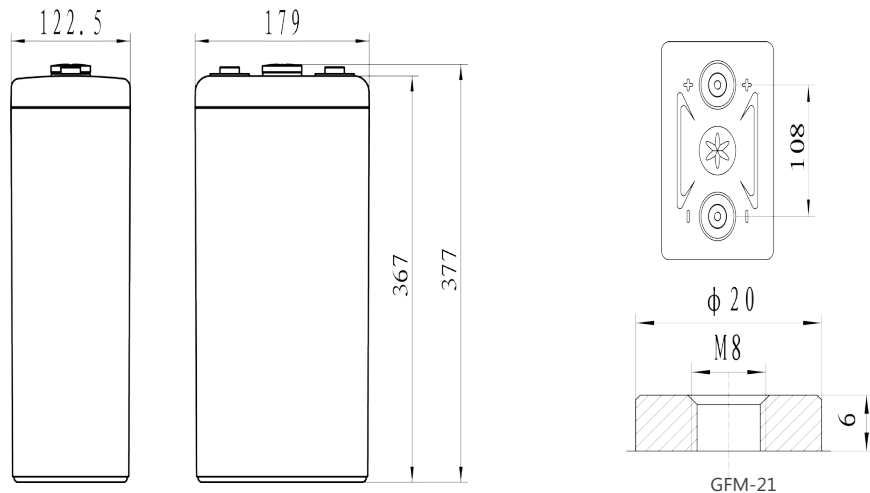
Applications

- Telecommunications
- Power system
- Renewable energy
- UPS
- Emergency power

Standards

- IEC 61427
- JIS C8704-1/2
- EUROBAT guide

Drawing



Specifications

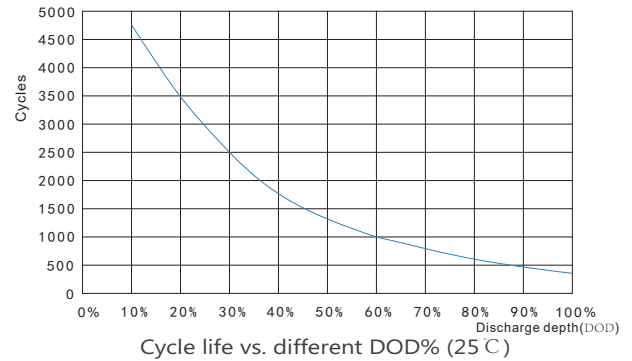
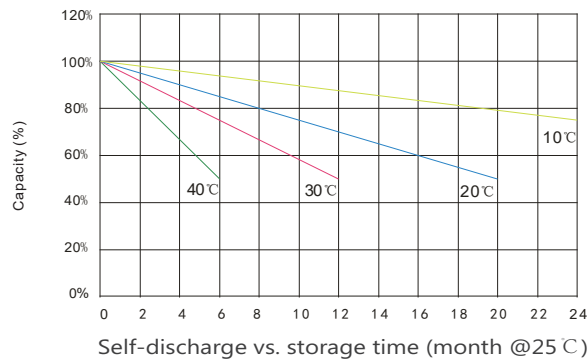
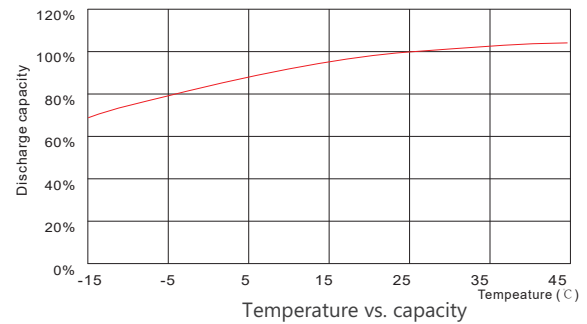
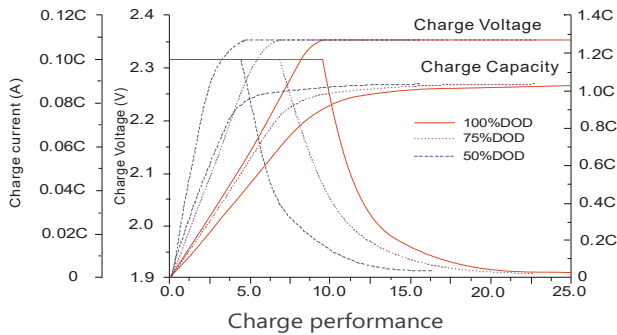
Battery Model	GFM-300HES			
Design Life (years, 25°C)	15			
Capacity (Ah, 25°C)	10HR (30A, 1.80V)	5HR (52.2A, 1.80V)	3HR (76.3A, 1.80V)	1HR (165A, 1.75V)
	300	261	228.9	165
Dimensions (mm)	Length	Width	Height	Total Height
	122.5	179	367	377
Approx. Weight (kg)	19.4			
Reference Internal Resistance (mΩ)	0.38 (fully charged @ 25°C)			
Maximum Discharge Current (A/5 Sec.)	1600			
Self-Discharge (25°C)	≤ 1.5 % per month			
Charge Voltage (V/cell, 25°C)	Cycle use		Float use	
	2.35 (-3.5mV/°C/cell), max charge current: 96A		2.25 (-3.5mV/°C/cell)	
Short Circuit Current (A)	4500			

Discharge Data

Constant Current Discharge Data (25°C, A)												
End Voltage (V/cell)	min	h										
	30	1	2	3	4	5	6	8	10	24	48	100
1.75	238	165	103	77.3	65.1	52.8	45.7	36.4	30.3	13.4	7.5	4.1
1.80	230	161	101	76.3	64.2	52.2	45.1	36.1	30.0	13.3	7.2	4.0
1.85	219	148	99.5	75.2	63.3	51.5	44.2	35.3	29.2	13.1	7.0	3.9
1.88	192	129	98.5	66.0	57.7	49.5	46.7	33.6	27.6	12.6	6.5	3.6
1.90	167	120	91.6	63.0	56.0	49.0	46.4	33.0	27.0	12.0	6.3	3.5

Constant Power Discharge Data (25°C, W/cell)												
End Voltage (V/cell)	min	h										
	30	1	2	3	4	5	6	8	10	24	48	100
1.75	402	283	186	141	111	96.9	86.0	70.9	59.1	29.0	14.0	7.2
1.80	377	274	180	138	117	96.0	85.0	70.0	58.4	28.7	13.6	7.1
1.85	355	246	160	125	97.0	90.0	83.0	63.9	54.3	27.3	12.7	6.8
1.88	314	226	147	120	92.0	83.9	81.0	63.0	52.7	26.7	12.2	6.7
1.90	273	193	135	100	88.0	78.8	79.0	61.0	50.4	25.7	11.5	6.4

Performance Curve



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